GOVERNMENT OF INDIA
AGRICULTURE
LOK SABHA

UNSTARRED QUESTION NO:6003
ANSWERED ON:26.04.2001
HIGH YIELDING SEED
PRABHAT KUMAR SAMANTARAY

Will the Minister of AGRICULTURE be pleased to state:

(a) whether the Government propose to develop hybrid seed;

(b) if so, the States where success has been achieved in this regard;

(c) whether any technology mission has been set up or proposed to be set up in Orissa to explore the possibility of developing high yielding seeds; and

(d) if so, the details thereof?

Answer

MINISTER OF STATE IN THE MINISTRY OF AGRICULTURE (SHRI SHRIPAD Y. NAIK)

(a) & (b): Yes Sir. Hybrid technology in crop plants has proved its potential in cross- pollinated crops (like Sorghum, Maize, Pearl Millet, Sunflower, Castor etc.), self-pollinated crops (like Rice, arhar, Safflower etc.), and 'often cross-pollinated' crops (like Cotton, Bhindi, Tomato, etc.) under rainfed and irrigated conditions. The list of hybrids released for different States is enclosed at Annexure-I.

(c) & (d): The Technology Mission on Oilseeds and Pulses is being implemented in Orissa. Details are given below:-

- Under Accelerated Maize Development Programme to increase production andproductivity of maize, incentive for Seed Minikit distribution (Rs.1.53 lakh in 1999-2000 and Rs.0.40 lakh in the year 2000-01) has been given to Orissa. Incentive for certified seed distribution of hybrid/high yielding varieties of maize has been provided to the tune of Rs.8.04 lakh in 1999-2000.

- Under Oilseed Production Programme and National Pulses Development Projectfinancial assistance of Rs.765 lakh in 1999-2000 and 294.50 lakh in the year 2000-01 has been given to Orissa for the production of breeder seed, foundation seed, distribution of certified seeds, seed minikit, seed village programme, crash programme for Groundnut seed and infrastructure development for seed producing agencies.

- The Technology Mission on Cotton is operational in Orissa and financial assistance ofRs.8.42 lakh in the year 1999-2000 and Rs.4.00 lakh in the year 2000-01 has given for distribution of high yielding cotton seeds.

- Research on development of improved varieties including hybrids of different crops is being carried out in Orissa through the Centre of the All-India Coordinated Crop ResearchImprovement Projects (AICRIPs)List of Centres located in Orissa is enclosed at Annexure-ll.

ANNEXURE - I

LIST OF HYBRIDS

S.No.	Name of Crop	Name of Hybrids	Recommendation for
1.	Rice	APHR-1	Telangana, Rayalaseema and uplands of coastal A.P.
		APHR-2	Telangana, Rayalaseema and uplands of coastal A.P.
		MGR-1	Tamil Nadu for May-June and Sept.-Oct. planting)
		KRH-1	Irrigated areas of Karnataka
		CNRH-3	West Bengal (Boro season)
		DRRH-1	Telangana, Rayalaseema and uplands of coastal A.P.
		KRH-2	Irrigated areas of Karnataka

Pant Sankar Dhan-1
Plains of western U.P.
CORH-2 TamilNadu (July-Sept.)
ADTRH-1 Tamil Nadu (April-July)
Sahyadri Konkan region of Maharashtra
Narendra Sankar
Dhan-2 Eastern U.P.

PHB 71 Tamil Nadu, Haryana, Maharashtra and U.P.
PA 6201 Bihar, West Bengal, Orissa, Tripura, A.P., Karnataka

2. Maize Dharwad Makka3+ Karnataka
HHM 1 Haryana
HHM 2 Haryana
Deccan 107 Entire country
Rajendra Makka-1 Bihar
Rajendra Makka-2 Bihar
Deccan 109 Eastern UP, Bihar, Assam, Orissa, Rajasthan, Gujarat, MP and Penninsular India
Him 129 Himalayan region, Rajasthan, Gujarat, MP under rainfed condition

Prakash Across the country
Pusa Early Hybrid Makka 1 Rajasthan, Gujarat, MP and Peninsular India
Pusa Early Hybrid Makka 2 Rajasthan, Gujarat, Madhya Pradesh
Vivek Hybrid-4 Rainfed cultivation, Rajasthan, MP, Gujarat
Vivek Hybrid 4 Rajasthan, MP, Gujarat, suitable for kharif cultivation under rainfed and irrigated conditions

Composite Gaurav Central and Western Uttar Pradesh, Delhi, Haryana and Punjab. Suitable for kharif cultivation under rainfed and irrigated conditions

HHM-1 Haryana
HHM-2 Haryana
AH-58+ Release in Zone IV (Maharashtra, Andhra Pradesh, Karnataka and Tamil Nadu

3. Pearl Millet RHB 58 Rajasthan

JKBH-26 Rajasthan, UP, Haryana, Gujarat, Punjab, MP
GHB-316 Rajasthan,Haryana, Gujarat, Punjab, MP
GK-1004 Karnataka, AP, Tamil Nadu
Pusa 605 Rajasthan, UP, Haryana, Gujarat, MP
Pusa 415 Rajasthan, Gujarat, Haryana, North eastern MP and Punjab

MLBH-504 Maharashtra, A.P., Karnataka

PAC 903 A.P., Tamil Nadu, Karnataka

4. Sorghum CSH-5 Gujarat, A.P., Rajasthan, Tamil Nadu
CSH-6 Karnataka, A.P., Gujarat, Tamil Nadu, Rajasthan
CSH-9 Maharashtra, M.P., A.P., Gujarat, Rajasthan, UP

CSH-10 Maharashtra, Karnataka, MP, AP, Rajasthan, UP
CSH-13 Maharashtra, Karnataka, MP, AP, Rajasthan, UP
CSH-14 Maharashtra, Karnataka, AP, Rajasthan, UP
CSH-16 Maharashtra, Karnataka, MP, AP, Rajasthan, UP, Tamil Nadu, Gujarat
CSH-17 Gujarat, MP, Rajasthan, Tamil Nadu
CSH-18 Maharashtra, MP, AP, Rajasthan, Gujarat and UP
JKSH-22 Andhra Pradesh and Gujarat
MLSh-14 Maharashtra, Karnataka, AP, Tamil Nadu

5. Cotton North Zone : Fateh Punjab
LHH 144 Punjab
LDH 11 Punjab
Dhanlaxmi Haryana
Omshankar (CSHH29) (entire northern zone) Haryana
Raj HH 16 (Maruvikas) Rajasthan

Central Zone :
JK Hy 1 M.P.
JK Hy 2 M.P.
PKV Hy 2 Maharashtra
PKV Hy 3 Maharashtra
NHH 44 Maharashtra
NHB 12 Maharashtra
CICRHH1 Maharashtra
DCH 32 Maharashtra
PKV Hy4 Maharashtra
Pha 46 Maharashtra
H 6 Gujarat
H 8 Gujarat
H 10 Gujarat
DH 7 Gujarat
DH 9 Gujarat

South Zone :

JK Hy 1 A.P.
DCH 32 A.P., Karnataka, Tamil Nadu
Savita A.P., Tamil Nadu
HB 224 A.P., Karnataka, Tamil Nadu
TCHB 213 A.P.
DDH 2 A.P., Karnataka
DHB 105 Karnataka
DHH 11 Karnataka
Surya Tamil Nadu
Sruthi Tamil Nadu
TCHB 312 Tamil Nadu
RCH 2 Tamil Nadu

6. Sunflower Jawalamukhi All India
Sungene 85 All India
PAC 36 All India
PAC 1091 All India
MLSFH 47 Maharashtra, Andhra Pradesh, Karnataka, Tamil Nadu, Orissa, Gujarat and Madhya Pradesh

7. Castor GCH 5 All India
DCH 32 Andhra Pradesh, Tamil Nadu, Karnataka under rainfed conditions and Maharashtra, Rajasthan and Gujarat under irrigated conditions

GCH 6 Gujarat, Rajasthan and Maharashtra
Deepak (DSH 177) Andhra Pradesh, Tamil Nadu, Karnataka and Maharashtra

8. Safflower DSH 129 All Safflower growing areas under irrigated and rainfed conditions
MKH 11 All Safflower growing areas under irrigated and rainfed conditions specially Maharashtra, Karnataka and Andhra Pradesh

9. Rapeseed and Mustard Hyola 401 Punjab, Haryana and Himachal Pradesh

10. Pigeonpea AKPH 4101 South West Uttar Pradesh, Madhya Pradesh, Maharashtra and Gujarat

ANNEXURE-II

Research Centres under AICRIPs in Orissa

Sl. No.	Name of the Project	Name of Centre/University
1.	Rice	i) Chiplima, OUA&T, Bhubaneswar ii) Jeypore, OUA&T, Bhubaneswar
2.	Maize	Jasipur, OUA&T, Bhubaneswar
3.	Small Millets	Behrampur, OUA&T, Bhubaneswar
4.	Rapeseed & Mustard	Bhubaneswar, OUA&T, Bhubaneswar
5.	Sunflower	Bhubaneswar, OUA&T, Bhubaneswar
6.	Castor	Bhavanipatna, OUA&T, Bhubaneswar
7	Groundnut	Chiplima, OUA&T, Bhubaneswar
8.	Sesame	Bhubaneswar, OUA&T, Bhubaneswar
9.	Network on Niger	Semiliguda, OUA&T, Bhubaneswar
10.	Linseed	Jashipur, OUA&T, Bhubaneswar
11.	Pigeonpea	Berhampur, OUA&T, Bhubaneswar
12.	MULLARP	Berhampur, OUA&T, Bhubaneswar
13.	Cotton	Umerkote, OUA&T, Bhubaneswar
14.	National (Seed Project Crops)	Orissa, OUA&T, Bhubaneswar